

Title (en)  
SAFE AUTO-NEEDLE DEVICE

Title (de)  
SICHERE AUTOMATISCHE NADELVORRICHTUNG

Title (fr)  
DISPOSITIF D'AIGUILLE AUTOMATIQUE SANS DANGER

Publication  
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Application  
**EP 16748838 A 20160210**

Priority  

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Abstract (en)  
[origin: WO2016128977A1] A safe auto-needle device for injection, comprising:

- a main housing;
- a syringe-support for receiving a disposable prefilled syringe; said syringe comprises: a piston; a proximal end; and a distal end terminating in a needle covered by a needle sheath (NS);
- a drive mechanism for advancing said syringe-support distally towards an injection site;
- a tubular needle shield; moveable from: a needle covering position, to partially exposed, to needle irreversibly concealed;
- said generally tubular needle shield comprising a distal end for contacting an injection site, and a proximal end;
- a spring urging distal movement of said needle shield; and said needle shield comprising a spring seat;
- an NS remover, designed to mate with and irreversibly grip said NS, for removal of said NS prior to injection;
- a locking mechanism preventing premature advancement of said needle;
- a plunger rod for engaging said piston, wherein depressing of said plunger is manually controllable; wherein in use of said device, said NS remover is removed; said distal end of said needle shield is pressed upon an injection site, releasing said locking mechanism, and driving said syringe-support and said syringe, distally until needle penetration; and upon depressing of said plunger, a medicament may be injected.

The invention additionally provides a novel two-component NS remover.

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